

WHAT IS CLAIMED IS:-

1. A printhead module for a printhead assembly, comprising at least one printhead integrated circuit having nozzles formed therein for delivering printing fluid onto the surface of print media, a support member supporting and carrying printing fluid for the at least one printhead integrated circuit, and at least one fluid
5 distribution member mounting the at least one printhead integrated circuit to the support member and distributing the printing fluid from the support member to the printhead integrated circuit,
wherein a lower surface of the at least one fluid distribution member is attached to an upper surface of the support member by an adhesive material.
2. A printhead module according to claim 1, comprising at least two printhead integrated circuits,
10 wherein:
the at least two printhead integrated circuits, the support member and the at least one fluid distribution member are formed as a unitary arrangement with an electrical connector for connecting electrical signals to the at least two printhead integrated circuits; and
the support member has at least one longitudinally extending channel for carrying the printing fluid
15 for the at least two printhead integrated circuits and includes a plurality of apertures extending through a wall of the support member arranged so as to direct the printing fluid from the at least one channel to associated nozzles in both, or if more than two, all of the printhead integrated circuits by way of respective ones of the fluid distribution members.
3. A printhead module according to claim 2, wherein the adhesive material is deposited to form a
20 gasket which surrounds each of the apertures of the support member and each of corresponding apertures formed in the lower surface of the at least one fluid distribution member so as to form a seal between the respective apertures.
4. A printhead module according to claim 3, wherein:
the apertures of the support member are formed in a row extending across the support member with
25 respect to the longitudinally extending direction of the support member; and
two deposits of the adhesive material are deposited on either side of the row of apertures to provide stability for the mounting arrangement.
5. A printhead module according to claim 4, wherein the adhesive material is a curable resin.
6. A printhead module according to claim 2, wherein the printhead module is arranged to be removably
30 mounted to the printhead assembly.

7. A printhead module according to claim 2, wherein the support member is formed with a plurality of the channels, each of which is arranged to carry a different printing fluid for direction to associated groups of the nozzles in the both, or if more than two, all of the printhead integrated circuits by way of respective ones of the fluid distribution members.
- 5 8. A printhead module according to claim 7, wherein the support member is formed with a further channel for delivering air to the at least two printhead integrated circuits for maintaining the nozzles of the at least two printhead integrated circuits substantially free from impurities.
9. A printhead module according to claim 2, wherein the printhead integrated circuits are individually supported upon a separate said fluid distribution member.
- 10 10. A printhead module according to claim 9, wherein:
each of the fluid distribution members is formed as a laminated stack of at least three layers comprising an upper layer upon which the associated printhead integrated circuit is mounted, a middle layer and a lower layer which is attached to an upper surface of the support member;
the lower layer includes first distribution apertures arranged to align with respective ones of the
15 apertures in the support member and first distribution channels in an upper surface thereof associated with respective ones of the first distribution apertures, the first distribution apertures having substantially the same diameter as the apertures in the support member;
the middle layer includes second distribution apertures arranged to align with the first distribution channels of the lower layer, the second distribution apertures having a smaller diameter than the first
20 distribution apertures;
the upper layer includes second distribution channels in a lower surface thereof arranged to align with the second distribution apertures of the middle layer and third distribution apertures associated with the second distribution channels, the third distribution apertures having a smaller diameter than the second distribution apertures; and
25 the associated printhead integrated circuit includes nozzle supply apertures arranged to align with the third distribution apertures of the upper layer and to direct fluid to respective ones of the nozzles, the nozzle supply apertures having substantially the same diameter as the third distribution apertures.
11. A printhead module according to claim 10, wherein the apertures of the support member have a diameter of the order of millimetres and the nozzle supply apertures of the at least two printhead integrated
30 circuits have a diameter of the order of micrometres.